

METAS ADVENTIST SCHOOL

Athwalines, Surat

Second Term Examination Portion: 2016-17

Class: XII (Sci)

PHYSICS:

- Chapter – 1: Coulomb's law
- Chapter – 2: Electric field, electric lines of force and electric dipole
- Chapter – 3: Gauss's law
- Chapter – 4: Electric potential
- Chapter – 5: Capacitors
- Chapter – 6: Electric current, electric resistance and Ohm's law
- Chapter – 7: Electrical energy and power
- Chapter – 8: Cells: Emf, internal resistance and grouping of cells
- Chapter – 9: Kirchhoff's law and electrical measurements
- Chapter – 10: Elementary magnetism
- Chapter – 11: Magnetic properties of materials
- Chapter – 12: Magnetic effect of current
- Chapter – 13: Forces on current and torque on dipoles in magnetic fields
- Chapter – 14: Electromagnetic induction
- Chapter – 15: Mutual and self inductances and transient currents
- Chapter – 16: Alternating currents
- Chapter – 17: E.M waves and Huygen's principle
- Chapter – 18: Interference of light waves
- Chapter – 19: Diffraction of light waves
- Chapter – 20: Polarization of light waves
- Chapter – 21: Reflection of light by spherical mirrors
- Chapter – 22: Refraction of light at a plane interface
- Chapter – 23: Refraction of light through prisms
- Chapter – 24: Refraction of light at spherical surfaces and by lenses
- Chapter – 25: Dispersion, spectra and chromatic aberration
- Chapter – 26: Microscopes, telescopes and human eye
- Chapter – 27: Photoelectric effect and wave-particle duality
- Chapter – 28: Structure of atoms
- Chapter – 29: X-rays
- Chapter – 30: Nuclei
- Chapter – 31: Radioactivity
- Chapter – 32: Nuclear energy

MATHS:

Section – A

- Chapter – 1: Determinants
- Chapter – 2: Matrices
- Chapter – 5: Inverse trigonometric functions
- Chapter – 6: Differentiation
- Chapter – 7: Indeterminate forms of limits
- Chapter – 8: Mean value theorems
- Chapter – 9: Maxima and Minima
- Chapter – 10: Integration
- Chapter – 11: Standard methods of integration
- Chapter – 12: Special integrals
- Chapter – 13: Definite integrals
- Chapter – 14: Application of definite integrals
- Chapter – 15: Correlation
- Chapter – 16: Regression analysis
- Chapter – 17: Probability
- Chapter – 18: Complex numbers
- Chapter – 19: Differential equations

Section – B

- Chapter – 20: Vectors
- Chapter – 21: Straight line in space
- Chapter – 22: The plane

Chapter – 23: Further probability – Baye’s theorem

Chapter – 24: Probability distribution

Section – C

Chapter – 25: Discount and bill of exchange

Chapter – 26: Annuities

Chapter – 27: Linear programming

Chapter – 28: Application of calculus in commerce and economics

Chapter – 29: Index numbers

Chapter – 30: Moving average

COMPUTER:

Chapter – 1: Boolean algebra

Chapter – 2: Computer hardware

Chapter – 3: Objects and classes

Chapter – 4: Primitive values, types, casting, variables and expressions

Chapters – 5: Statements, control strucre and scope

Chapter – 6: Functions

Chapter – 7: Arrays

Chapter – 8: Compiling and running java programs

Chapter – 9: java classes: An oop perspective

Chapter – 10: Operations on files

Chapter – 11: Recursion

Chapter – 12: Concept of inheritance

Chapter – 13: Exception handling

Chapter – 14: Simple data structure (stack)

Chapter – 15: Recursive data structure

ENGLISH:

ISC Collection of Short Stories:

1. The lost Jewels
2. Lamb to the Slaughter
3. The Drovers Wife
4. The Stolen Bacillus
5. Old Love
6. A very old man with Enormous wings
7. A Real Durwan
8. The Lumber Room
9. The legend of sleepy hollow
10. One Thousand Dollars

ISC Collection of Poems

1. The Eve of Waterloo
2. The Last Ride Together
3. Mending Wall
4. Dulce et Decorum Est
5. Do not go Gentle into that Good Night
6. Enterprise
7. Five ways to kill a man
8. Phenomenal woman
9. Breaking out
10. Father Returning Home

Much Ado About Nothing; Act 1 to Act 5

Language: Composition, Do as directed, Preposition, Correct form of word, Guided composition, Comprehension

BIOLOGY:

Lesson 4: Absorption and movement of water in plants

Lesson 5: Photosynthesis

Lesson 6: Reproduction and development in angiosperms

Lesson 10: DNA-The genetic material

Lesson 11: rDNA- Technology and its applications

Lesson 13: Biotic community

Lesson 14: Biodiversity and conservation
Lesson 15: Biofertilizers

CHEMISTRY: Chapter 1 to 15